

AMMONIA-N IN DRINKING WATER AND SURFACE WATERS, AND DOMESTIC AND INDUSTRIAL WASTES
AQ2 METHOD NO: EPA-129-A REVISION 4

Facility Name: _____ VELAP ID _____

Assessor Name: _____ Analyst Name: _____ Inspection Date _____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
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Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____

Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____

1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?	Method Supplement 1, Rev. 2 (MS) 3.2.1				
2. Is linearity reestablished if any verification data exceeds initial calibration values by $\pm 10\%$?	MS 3.2.1				
3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? <i>NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.</i>	MS 3.4.3, 3.4.3.4, 3.4.3.5				
4. Is at least one method blank carried through all the procedural steps with each batch?	MS 3.4.1.1				
5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?	MS 4.5				
6. Is a minimum of 10% of all samples spiked with the stock standard?	MS 3.3.1				
7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?	MS 3.3.1.1.1				
8. Were the absorbencies read at 650-660 nm?	Introduction				

Notes/Comments:

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9. If samples were preserved with sulfuric acid, was sulfuric acid added to calibration standards so that the concentrations of sulfuric acid matched between standards and samples?	Introduction				
10. Were samples for the Clean Water Act (NPDES) distilled by EPA 350.1 Revision 2.0 prior to analysis by this method unless the laboratory has documentation indicating distillation is not necessary?	1.4 11.3				
11. If turbidity interfered with analysis, were turbid samples filtered prior to analysis?	4.4				
12. Were samples analyzed for total ammonia not filtered prior to analysis?	8.3				
13. If sample color absorbed the analytical wavelength, was the blanking feature of the AQ2 software used?	4.4				
14. Was volumetric glassware Class A?	6.2				
15. Was house-brand bleach, if used, stored under refrigeration?	7.1				
16. Was analytical brand bleach, if used, replaced within 8 weeks after opening?	7.1				
17. Was Sodium Nitroprusside reagent discarded if it became bluish in color?	7.1				
18. Was the anhydrous Ammonium Chloride (NH ₄ Cl) used to make standards dried at 105°C?	7.2				
19. Was the stock standard solution preserved with sulfuric acid and stored at 4°C?	7.2				
20. Were samples collected in glass or plastic bottles?	8.1				
21. Were samples preserved to a pH < 2 with sulfuric acid and cooled to ≤6°C at the time of collection and held for not longer than 28 days?	40CFR136.3 Table 11				
Notes/Comments:					